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(54) **MECHATRONICS EQUIPMENT DESIGN SUPPORTING DEVICE**

(57) Abstract:

PROBLEM TO BE SOLVED: To find out a logic error or simple error on a program in advance without a real machine by providing a mechanism model preparing part for processing the input of mechanism model data, control flow preparing part for processing the input of control flow data, arithmetic processing part for calculating the state change of a component, and display processing part for displaying the state change of the component.

SOLUTION: A mechanism model preparing part 1 processes the input of the mechanism model data containing the geometrical shape data of a mechanical/electric component consisting of a mechanism, characteristic/state data expressing the characteristic and state of the component and the data of dynamic connection relation between the components. A control flow preparing part 2 processes the input of the control flow data (control sequence data) for controlling the operation of the mechanism. An arithmetic processing part 2 calculates the state change (coordinate or state) of the component from the mechanism model data and the control flow data. A display processing part 4 performs processing for displaying the state change of the component on an input/output unit 7 based on the calculated result at the arithmetic processing part 3.

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-1-